| Ref<br># | Hits  | Search Query  | DBs  | Default<br>Operator | Plurals | Time Stamp       |
|----------|-------|---|--|---------------------|---------|------------------|
| L1       | 30952 | (print\$4 or record\$4) and (jet\$4 or inkjet\$4 or eject\$4 or firing or discharg\$4) and (nozzle\$1 or opening\$1 or orifice\$1) and (drop\$1 or droplet\$1) and (pressur\$4) and (pulse\$1 or waveform\$1 or voltage\$1) and (sens\$4 or measur\$4 or monitor\$4 or detect\$4) and (adapt\$4 or modif\$4 or modulat\$4 or chang\$4 or varying or var\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | OFF     | 2007/11/11 10:26 |
| L2       | 3824  | 1 and ((jet\$4 or inkjet\$4 or eject\$4 or firing or discharg\$4) same (nozzle\$1 or opening\$1 or orifice\$1) same (drop\$1 or droplet\$1) same (pressur\$4) same (pulse\$1 or waveform\$1 or voltage\$1)) and (sens\$4 or measur\$4 or monitor\$4 or detect\$4) and (adapt\$4 or modif\$4 or modulat\$4 or chang\$4 or varying or var\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | OFF     | 2007/11/11 10:28 |
| L3       | 1472  | 2 and ((jet\$4 or inkjet\$4 or eject\$4 or firing or discharg\$4) same (nozzle\$1 or opening\$1 or orifice\$1) same (drop\$1 or droplet\$1) same (pressur\$4) same (pulse\$1 or waveform\$1 or voltage\$1)) and ((sens\$4 or measur\$4 or monitor\$4 or detect\$4) same (actuator\$1 or transducer\$1 or piezoelectric\$1))and (adapt\$4 or modif\$4 or modulat\$4 or chang\$4 or varying or var\$3)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | OFF     | 2007/11/11 10:33 |
| L4       | 1472  | 2 and ((jet\$4 or inkjet\$4 or eject\$4 or firing or discharg\$4) same (nozzle\$1 or opening\$1 or orifice\$1) same (drop\$1 or droplet\$1) same (pressur\$4) same (pulse\$1 or waveform\$1 or voltage\$1)) and ((sens\$4 or measur\$4 or monitor\$4 or detect\$4) same (actuator\$1 or transducer\$1 or piezoelectric\$1)) and (adapt\$4 or modif\$4 or modulat\$4 or chang\$4 or varying or var\$3) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | OFF     | 2007/11/11 10:34 |

| L5 | 539 | 4 and ((jet\$4 or inkjet\$4 or eject\$4 or firing or discharg\$4) same (nozzle\$1 or opening\$1 or orifice\$1) same (drop\$1 or droplet\$1) same (pressur\$4) same (pulse\$1 or waveform\$1 or voltage\$1)) and ((sens\$4 or measur\$4 or monitor\$4 or detect\$4) same (actuator\$1 or transducer\$1 or piezoelectric\$1) same (adapt\$4 or modif\$4 or modulat\$4 or chang\$4 or varying or var\$3)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | OFF | 2007/11/11 10:35 |
|----|-----|--|--|------|-----|------------------|
| L6 | 353 | 5 and ((pulse\$1 or waveform\$1 or voltage\$1) same (sens\$4 or measur\$4 or monitor\$4 or detect\$4) same (actuator\$1 or transducer\$1 or piezoelectric\$1) same (adapt\$4 or modif\$4 or modulat\$4 or chang\$4 or varying or var\$3))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | OFF | 2007/11/11 10:36 |
| L7 | 167 | 6 and ((pulse\$1 or waveform\$1 or voltage\$1) same ((sens\$4 or measur\$4 or monitor\$4 or detect\$4) with (actuator\$1 or transducer\$1 or piezoelectric\$1)) same (adapt\$4 or modif\$4 or modulat\$4 or chang\$4 or varying or var\$3))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR . | OFF | 2007/11/11 10:37 |
| L8 | 45  | 7 and ((pulse\$1 or waveform\$1 or voltage\$1) same ((sens\$4 or measur\$4 or monitor\$4 or detect\$4) with (actuator\$1 or transducer\$1 or piezoelectric\$1)) same (impedanc\$4 or resistance or capacit\$5) same (adapt\$4 or modif\$4 or modulat\$4 or chang\$4 or varying or var\$3))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | OFF | 2007/11/11 10:40 |
| L9 | 20  | ("3363212"   "3747120"   "3946398"  <br>"4176363"   "4459601"   "4498088"  <br>"4686539"   "4973981"   "5049898"  <br>"5500657"   "5576743"   "5631675"  <br>"6086190").PN. OR ("6375299").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR   | OFF | 2007/11/11 10:51 |

| L10 21           | •                         |                                       | "3468164"     | US-PGPUB; | OR | OFF | 2007/11/11 10:54 |
|------------------|---------------------------|---------------------------------------|---------------|-----------|----|-----|------------------|
|                  | "3590370"                 | "3688190"                             | "3691842"     | USPAT;    |    |     |                  |
|                  | "3701280"                 | "3973184"                             | "4058975"     | USOCR     |    |     |                  |
|                  | "4099413"                 | "4102199"                             | "4122719"     |           |    |     | •                |
|                  | "4129875"                 | "4179732"                             | "4250490"     |           |    | •   |                  |
|                  | "4282583"                 | "4313683"                             | "4337516"     |           |    |     |                  |
|                  | "4399824"                 | •                                     | "4530234"     |           |    |     |                  |
| •                | "4571689"                 | · · · · · · · · · · · · · · · · · · · | "4642782"     |           |    |     |                  |
|                  | "4644479"                 | ·                                     | "4707796"     | ,         |    |     |                  |
| •                | "4719626"                 | •                                     | "4777585"     | ·         |    |     |                  |
|                  | "4831564"                 | :                                     | "4852785"     |           |    |     |                  |
|                  | "4873655"                 | •                                     | "4924418"     |           | ,  |     |                  |
|                  | "4934196"                 | :                                     | "4964125"     |           |    |     |                  |
|                  | "4988990"                 | ·                                     | "5005142"     |           |    |     |                  |
|                  | "5027135"                 | •                                     | "5053815"     |           |    |     |                  |
|                  | "5067099"                 | •                                     | "5089984"     |           |    |     |                  |
|                  |                           | •                                     | ·             | •         |    |     |                  |
|                  | "5098197"<br>"E111E31"    | •                                     | "5103409"     |           |    |     |                  |
|                  | "5111531"                 | •                                     | "5122794"     | •         |    |     |                  |
|                  | "5122976"                 | •                                     | "5134574"     |           |    |     |                  |
|                  | "5137370"                 | ·                                     | "5143452"     |           |    |     |                  |
|                  | "5148378"                 | •                                     | "5175678"     |           |    |     |                  |
|                  | "5193143"                 | ·.                                    | "5197328"     |           |    |     |                  |
|                  | "5212765"                 | •                                     | "5214582"     |           |    |     | •                |
|                  | "5224203"                 | •                                     | "5235527"     |           |    |     |                  |
|                  | "5265031"                 | •                                     | "5269311"     |           |    |     |                  |
|                  | "5274572"                 | •                                     | "5282261"     |           |    |     | •                |
|                  | "5293585"                 | "5303181"                             | "5305230"     |           |    |     |                  |
|                  | "5311421"                 | "5317520"                             | "5327357"     |           |    |     |                  |
|                  | "5333240"                 | "5347843"                             | "5349541"     |           |    |     |                  |
|                  | "5357 <del>44</del> 9"    | "5361628"                             | "5365423"     |           |    |     |                  |
|                  | "5367612"                 | "5384699"                             | "5386373"     |           |    |     |                  |
|                  | "5392065"                 | "5394341"                             | "5394543"     |           |    |     | ,                |
|                  | "5404064"                 | "5408406"                             | "5408586"     |           |    |     |                  |
|                  | "5412779"                 | "5414645"                             | "5419197"     | •         |    |     |                  |
|                  | "5430642"                 | "5440478"                             | "5441921"     |           |    |     |                  |
| •                | "5442639"                 | "5455611"                             | "5467355"     |           |    |     |                  |
|                  | "5469070"                 | •                                     | "5469735"     |           |    |     |                  |
|                  | "5481199"                 | •                                     | "5485753"     |           |    |     |                  |
|                  | "5486996"                 |                                       | "5489831"     |           |    |     | •                |
|                  | "5495769"                 | •                                     | "5511004"     |           |    |     |                  |
|                  | "5537554"                 | •                                     | "5548528"     |           |    |     |                  |
|                  | "5561599"                 | •                                     | •             |           |    |     |                  |
|                  | ("5570300                 | •                                     |               |           |    |     |                  |
|                  | <sup>*</sup> "5598521"    | •                                     | "5623605"     |           |    |     |                  |
|                  | "5627572"                 | "5637802"                             | "5640491"     |           |    |     |                  |
|                  | "5649120"                 | "5661668"                             | "5665899"     |           |    |     |                  |
|                  | "5669713"                 | "5671335"                             | "5675504"     |           |    |     |                  |
|                  | "5675724"                 | "5680109"                             | "5696685"     |           |    |     |                  |
|                  | "5700090"                 | "5703575"                             | "5704011"     | •         |    |     |                  |
| •                |                           | •                                     | •             |           | •  |     | 1                |
|                  | "5705978"<br>"5710378"    | "5708585"                             | "5713668"     |           |    |     |                  |
|                  | "5719378"<br>"5746511"    | "5741074"                             | "5742845"     |           |    |     | •                |
|                  | "5746511"<br>"E76940E"    | "5752008"                             | "5764891"     |           |    |     |                  |
|                  | "5768495"<br>"E706430"    | "5774678"                             | "5781878"     |           |    |     |                  |
|                  | "5796420"<br>"E90E442"    | "5797069"                             | "5801689"     |           |    |     |                  |
|                  | "5805442"                 | "5819110"                             | "5828567"     | •         |    |     | •                |
| 1/11/07 12:00:35 | "5829876"<br>PM "======== | <u>"5848383"</u>                      | "5859964"     |           |    |     | Page             |
| _,,,             | 20/0122                   | "5887216"                             | "5887978"     |           | •  |     |                  |
|                  | "5893083"                 | "5901286"                             | "5923557"     |           |    |     |                  |
|                  | "5974086"                 | 1 "5026778"                           | I "504N7QN" I |           |    |     |                  |
|                  |                           |                                       |               |           |    |     |                  |

| L11 | 40  | ("3671860"   "4101056"   "4202218"  <br>"4437164"   "4455095"   "4651292"  <br>"4966034").PN. OR ("5926778").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR   | OFF | 2007/11/11 11:16 |
|-----|-----|---|------------------------------|------|-----|------------------|
| L12 | 120 | 7 not 8   | US-PGPUB;<br>USPAT;<br>USOCR | OR   | OFF | 2007/11/11 11:18 |
| L13 | 92  | 12 and "347"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR | OR   | OFF | 2007/11/11 11:38 |
| L14 | 13  | 13 and "347"/19.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR | OR   | OFF | 2007/11/11 11:19 |
| L15 | 4   | ("4414553"   "4521786"   "5757392"  <br>"5966148").PN. OR ("6910751").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR   | OFF | 2007/11/11 11:21 |
| L16 | 30  | ("4424520"   "4686539"   "4743924"  <br>"4972211"   "5016028"   "5359350").<br>PN. OR ("5757392").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR   | OFF | 2007/11/11 11:24 |
| L17 | 79  | 13 not 14   | US-PGPUB;<br>USPAT;<br>USOCR | OR   | OFF | 2007/11/11 11:24 |
| L18 | 16  | ("4313124"   "4345262"   "4459600"  <br>"4463359"   "4513298"   "4558333"  <br>"4723129"   "4740796"   "5483265"  <br>"5751302").PN. OR ("6439696").URPN. | US-PGPUB;<br>USPAT;<br>USOCR | OR   | OFF | 2007/11/11 11:34 |
| L19 | 28  | 12 not 13   | US-PGPUB;<br>USPAT;<br>USOCR | OR . | OFF | 2007/11/11 11:40 |
| L20 | 0   | oce-tech.as.  | US-PGPUB;<br>USPAT;<br>USOCR | OR   | OFF | 2007/11/11 11:40 |
| L21 | 0   | oce-technology.as.  | US-PGPUB;<br>USPAT;<br>USOCR | OR   | OFF | 2007/11/11 11:41 |
| L22 | 891 | oce.as.   | US-PGPUB;<br>USPAT;<br>USOCR | OR   | OFF | 2007/11/11 11:41 |
| L23 | 5   | 22 and (groninger.in.)  | US-PGPUB;<br>USPAT;<br>USOCR | OR   | OFF | 2007/11/11 11:54 |
| L24 | 7   | 22 and (kruijt.in.)   | US-PGPUB;<br>USPAT;<br>USOCR | OR   | OFF | 2007/11/11 11:55 |
| L25 | 26  | 22 and (reinten.in.)  | US-PGPUB;<br>USPAT;<br>USOCR | OR   | OFF | 2007/11/11 11:58 |

| L26 | 10 | 22 and (simons.in.)    | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2007/11/11 12:00 |
|-----|----|------------------------|------------------------------|----|-----|------------------|
| L27 | 1  | 22 and (schippers.in.) | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2007/11/11 12:00 |

| Ref<br>#  | Hits | Search Query  | DBs  | Default<br>Operator | Plurals | Time Stamp       |
|-----------|------|---|--|---------------------|---------|------------------|
| S1        | 606  | 347/10.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR .                | OFF     | 2007/11/11 12:10 |
| S2        | 5    | ("5790139"   "5984464"   "6257689"  <br>"6259463"   "6557962").PN. OR<br>("6719389").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR   | OR                  | OFF     | 2007/11/11 12:07 |
| S3        | 5    | ("5359358"   "5757391"   "6109716"  <br>"6126259"   "6328395").PN. OR<br>("6604802").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR   | OR                  | OFF     | 2007/11/11 12:08 |
| S4        | 9    | ("4106032"   "5764247"   "5894242"  <br>"5894316").PN. OR ("6206496").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR                  | OFF     | 2007/11/11 12:10 |
| S5        | 1038 | 347/9.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | OFF     | 2007/11/11 12:23 |
| S6        | 14   | ("4513299"   "4872028"   "5322594"  <br>"5408746"   "5635968"   "5682185"  <br>"5726690"   "5867200"   "5975670"  <br>"6102513"   "6120123"   "6243109").<br>PN. OR ("6390580").URPN.                           | US-PGPUB;<br>USPAT;<br>USOCR   | OR .                | OFF     | 2007/11/11 12:18 |
| <b>S7</b> | 31   | ("4503444"   "4617580"   "4740796"  <br>"4952943"   "5202659"   "5252986"  <br>"5293182"   "5389962"   "5420618").<br>PN. OR ("5729257").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR   | OR                  | OFF     | 2007/11/11 12:22 |
| S8        | 2829 | 347/19.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | OFF     | 2007/11/11 12:23 |
| S9        | 9    | ("5168291"   "5245362"   "5508722"  <br>"5831647"   "5842800"   "5953024"  <br>"6137503").PN. OR ("6412899").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR   | OR                  | OFF     | 2007/11/11 12:25 |
| S10       | 44   | ("4277791"   "4313124"   "4345262"  <br>"4459600"   "4463359"   "4475825"  <br>"4558333"   "4675696"   "4709247"  <br>"4723129"   "4740796"   "4825231"  <br>"4872026"   "4977413").PN. OR<br>("5168291").URPN. | US-PGPUB;<br>USPAT;<br>USOCR   | OR                  | OFF     | 2007/11/11 12:26 |

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|-----|----------|--|------------------------------|---------------|-----|---------------------------------------|
| S11 | 41       | ("4246489"   "4313124"   "4345262"   "4459600"   "4463359"   "4558333"   "4608577"   "4723129"   "4740796"   "4847638"   "4998022"   "5168291"   "5250957"   "5291224"   "5382969"   "5534899"   "5638097").PN. OR ("6137503").URPN. | US-PGPUB;<br>USPAT;<br>USOCR | OR            | OFF | 2007/11/11 12:26                      |
| S12 | 4        | ("5631677"   "6067101"   "6247777").<br>PN. OR ("6918645").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR            | OFF | 2007/11/11 12:31                      |
| S13 | 13       | ("4680630"   "4727245"   "5049898"  <br>"5699091"   "5742296"   "5742409"  <br>"5806997"   "5914737"   "6039430"  <br>"6137495"   "6157749"   "6158850"  <br>"6659584").PN. OR ("6958826").URPN.                                     | US-PGPUB;<br>USPAT;<br>USOCR | OR            | OFF | 2007/11/11 12:32                      |
| S14 | 12       | ("4313124"   "4345262"   "4459600"  <br>"4463359"   "4558333"   "4608577"  <br>"4723129"   "4740796"   "6247784"  <br>"6312073"   "6360174"   "6824236").<br>PN. OR ("7001006").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR            | OFF | 2007/11/11 12:33                      |

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